Human Genome Epidemiology Workshop: Using Genetic Information to Improve Health and Prevent Disease

Sponsored by: Office of Genetics and Disease Prevention, CDC

May 8 - 9, 2000

Atlanta, Georgia

Course Objectives:

This workshop will introduce the concepts of human genome epidemiology (HuGE), which translates gene discoveries to disease prevention by integrating population-based data on gene-disease relationships with the development of interventions. Course participants will acquire conceptual and practical tools for critically evaluating the growing scientific literature in this area.

After the course, participants should be able to:

- Recognize 3 features that define the emerging field of human genome epidemiology and its relationship to human genetics, epidemiology, and the evaluation of genetic tests and services.
- Identify 3 types of data needed to translate genetic discoveries into public health recommendations and interventions.
- Use 3 criteria to review and evaluate such data in the scientific literature.

Target Audience:

Health professionals trained in *epidemiology, genetics,* or *preventive medicine* who are interested in the intersection of these disciplines. Participants should know the basic concepts of epidemiology and genetics.

Note: This workshop is not intended for persons seeking an in-depth introduction to either epidemiology or genetics.

Course Format:

Lectures will provide an overview of human genome epidemiology, including impact of the human genome project on epidemiologic research; measuring gene-disease associations and gene-environment interactions; integrating the evidence from population-based studies into prevention activities; and translating genetic advances into improved health outcomes.

Case studies will allow practice in describing the population distribution of gene variants; summarizing gene-disease associations in terms of environment and gene-gene interactions; and characterizing biochemical and DNA tests in terms of analytic validity, clinical validity, and clinical utility.

Course Materials:

Participants will receive scientific articles to read in advance and should bring a calculator to the workshop.

Faculty:

Wylie Burke, MD, PhD, Women's Health Care Center, University of Washington, Department of Medicine
Janice S. Dorman, PhD, Department of Epidemiology, University of Pittsburgh Graduate School of Public Health
Darrell Ellsworth, PhD, National Heart, Lung, and Blood Institute, National Institutes of Health
Jan M. Friedman, MD, MS, PhD, Children's and Women's Health Center, University of British Colombia
Muin J. Khoury, MD, PhD, Office of Genetics and Disease Prevention, Centers for Disease Control and Prevention
Julian Little, PhD, Department of Medicine and Therapeutics, University of Aberdeen Medical School, Scotland
Karen Steinberg, PhD, National Center for Environmental Health, Centers for Disease Control and Prevention

Registration Information:

Online Registration at http://www.cdc.gov/genetics/courses/registration.htm
Register early! Space is limited! No fee! *Deadline:* **March 31, 2000**.

Workshop Location:

Radisson Inn at Executive Park
2061 North Druid Hills Road (intersection of I-85 North)
Atlanta, GA 30329

Overnight Accommodations:

Radisson Inn at Executive Park
A block of twenty-five (25) guest rooms, named "CDC/Office of Genetics," is being held at the rate of $91.84 per night (including tax) until April 21, 2000, at 5 pm.
phone 404-321-4174 fax 404-636-7264
toll free 800-333-3333

Amenities:

Direct access from Atlanta-Hartsfield International Airport.
Restaurant in hotel, Continental breakfast available.
Hotel shuttle to Lenox Square and 3-mile vicinity.
Approximately 2 miles to most CDC Atlanta locations.

Information:

Send questions to Genetics Mailbox at genetics@cdc.gov,
Or call: 770-488-3235
Office of Genetics and Disease Prevention
Centers for Disease Control and Prevention

Links:

OGDP Home Page at http://www.cdc.gov/genetics/
HuGENet Home Page at http://www.cdc.gov/genetics/hugenet/